NONBACTERIAL PROSTATITIS MODEL ANIMAL NAKANO, et al. Atty Docket: SAEG153.002APC

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Figure 1

(a) Pathohistological evaluation of the prostate: 6 hours after hydrochloric acid injection

Site/histological observation	Sample code	N	Y	P					
prostate (longitudinal plane)			· · · · · · ·						
dorsolateral lobe		-	- 	 					
lumen			· · · · · ·	 					
loss of glandular epithelial cells peeling of epithelium degeneration/necrosis			+++	+++					
					presence of erythrocytes			1	++
					stroma			 	
ampulla ductus deferentis		-							
lumen				†					
peeling of epithelium			+++	 					
degeneration/necrosis									
bleeding									
stroma				i					
vas deferens		-		-					
bleeding			+++						
seminal vesicle			T	<u> </u>					
lumen		·		 -					
presence of erythrocyte			+++	t					

(b) Pathohistological evaluation of the prostate: 4 days after hydrochloric acid injection

Site/histological observation	Sample code	N	Y	P
prostate (longitudinal plane)			T	
dorsolateral lobe		-		
lumen				†
loss of glandular epithelial cells			†	+++
peeling of epithelium			·	+++
presence of erythrocytes		 	 	·
degeneration/necrosis		·	·	+++
bleeding			·	++
stroma				 ''-
inflammatory cellular infiltration		 	· · · · · · · · · · · · · · · · · · ·	+++
fibroblast hyperplasia				++
ampulla ductus deferentis				
lumen			·	
loss of glandular epithelial cells			i	
presence of erythrocytes			±	
stroma				
inflammatory cellular infiltration	*****		+	
fibrosis			 	

(c) Pathohistological evaluation of the prostate: 8 days after hydrochloric acid injection

Site/histological observation	Sample code	N	Y	P
rostate (longitudinal plane)		 		
dorsolateral lobe				
lumen				
loss of glandular epithelial cells		<u> </u>	±	1
presence of erythrocytes			±	+
degeneration/necrosis				
localized bleeding		1		+
stroma		 	!	
inflammatory cellular infiltration				++
fibrosis		·		++
localized bleeding			±	
ampulla ductus deferentis	·	-		 -
lumen				_
presence of erythrocytes		f	+	
stroma		i		
inflammatory cellular infiltration			±	·
vas deferens		· ·		
lower layer of transitional epithelium				
fibrosis			+++	
granuloma			++	
inflammatory cellular infiltration			+	

Sample code: N = control group (rats in which hydrochloric acid was not injected), Y = comparative group (rats in which hydrochloric acid was injected into the vasa deferentia), P = test group (rats in which hydrochloric acid was injected beneath the prostatic capsules)

Grading: - = no change, ± = insignificant, + = slight, ++ = moderate, +++ = severe

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Figure 2

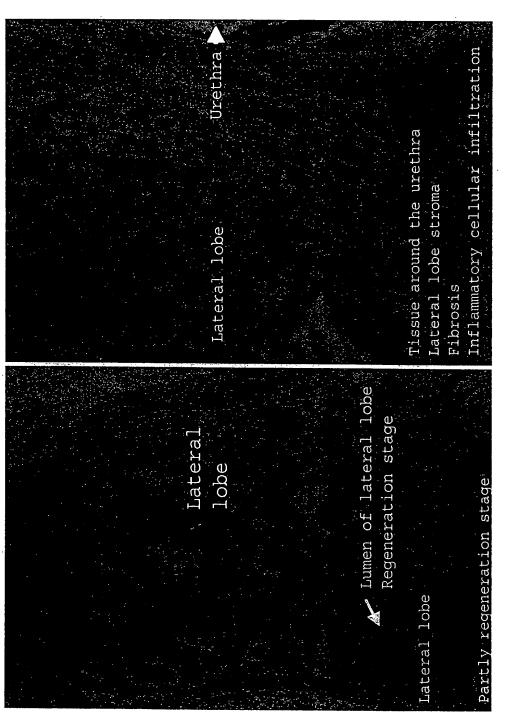
(a) Pathohistological evaluation of the prostate: 6 hours after hydr	ocmore acid injection			
Site/histological observation	Sample code	N	Y	P
prostate (transverse plane) - dorsolateral lobe	· · · · · · · · · · · · · · · · · · ·			+
lumen		 	 	
presence of erythrocytes				
peeling of epithelium degeneration/necrosis				+++
presence of erythrocyte		•		
loss of glandular epithelial cells		 		++
stroma inflammatory cellular infiltration				
localized bleeding		-		
nerve cell tigrolysis			+++	++
vas deferens			<u> </u>	<u> </u>
lumen degeneration/necrosis		· 		
pecling of epithelium		· 	+++	
ulcer		1	++	
bleeding seminal vesicle		 	++	
lumen		 	 	
peeling of epithelium		 	 	
ukcer (h) Pathohistological analysis - 6th			++	
(b) Pathohistological evaluation of the prostate: 4 days after hydro Site/histological observation	chloric acid injection		1 - 57	
prostate (transverse plane)	Sample code	N	Y	P
dorsolateral lobe		+	 	
lumen				
loss of glandular epithelial cells presence of erythrocyte		ļ		++
bleeding from the periphery		 	 	
atrophy			 	++
peeling of epithelium necrosis				++
bleeding			·	+++
stroma				++
inflammatory cellular infiltration bleeding from the blood vessels				+++
coagulation necrosis of the blood vessels	· · · · · · · · · · · · · · · · · · ·	 	 	
fibroblast hyperplasia		<u> </u>	 	+++
outside the tunica serosa ventriculus nerve cells necrosis				
ampulla ductus deferentis		 	ļ	+
lumen		 	 	
inflammatory cellular infiltration			<u> </u>	<u> </u>
peeling of epithelium degeneration/necrosis			<u>±</u>	
presence of crythrocytes		 	ļ	
stroma				
inflammatory cellular infiltration vas deferens			+	+
lumen			 	
necrosis		1	+++	
lower layer vas deferens epithelium and muscular layer			+++	
Tes determine condition and museular layer				
necrosis				
granulation tissue epithelial cell formation???			++	
necrosis granulation tissue epithelial cell formation??? seminal vesicle	N. J.		++	-
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc	hloric acid injection		-	
necrosis granulation tissue epithelial cell formation??? seminal vesicle	hloric acid injection Sample code	·		P
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe	hloric acid injection Sample code		-	
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen	hloric acid injection Sample code	N	Y	
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe lumen peeling of glandular epithelial	hloric acid injection Sample code	N	Y	
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells	hloric acid injection Sample code	N	Y	P
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes	hloric acid injection Sample code	N	Y	P +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial presence of erythrocytes degeneration/necrosis	hloric acid injection Sample code	N	Y	+ +++
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial loss of glandular epithelial cells presence of crythrocytes degeneration/necrosis localized bleeding	hloric acid injection Sample code	N	Y	+ ++
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Sitchistological observation prostate (transverse plane) dorsolateral lobe lumen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma	hloric acid injection Sample code	N	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis	hloric acid injection Sample code	N	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration	hloric acid injection Sample code	N	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe lumen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen	hloric acid injection Sample code	N	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe lumen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Sitchistological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration vas deferens	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Sitchistological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampula ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration vas deferens lower layer / vas deferens and muscular layer	hloric acid injection Sample code	N -	+ +	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration vas deferens lower layer / vas deferens and muscular layer fibrosis granuloma (granulation)	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration vas deferens lower layer / vas deferens and muscular layer fibrosis	hloric acid injection Sample code	N -	+ +	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe lumen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration yas deferens lower layer / vas deferens and muscular layer fibrosis granuloma (granulation) inflammatory cellular infiltration localized bleeding inflammatory cellular infiltration	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Sitchistological observation prostate (transverse plane) dorsolateral lobe humen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration vas deferens lower layer / vas deferens and muscular layer fibrosis granuloma (granulation) inflammatory cellular infiltration localized bleeding	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +
necrosis granulation tissue epithelial cell formation??? seminal vesicle (c) Pathohistological evaluation of the prostate: 8 days after hydroc Site/histological observation prostate (transverse plane) dorsolateral lobe lumen peeling of glandular epithelial loss of glandular epithelial cells presence of erythrocytes degeneration/necrosis localized bleeding Stroma inflammatory cellular infiltration fibrosis localized bleeding ampulla ductus deferentis lumen secrete degeneration presence of erythrocytes stroma inflammatory cellular infiltration yas deferens lower layer / vas deferens and muscular layer fibrosis granuloma (granulation) inflammatory cellular infiltration localized bleeding inflammatory cellular infiltration	hloric acid injection Sample code	N -	Y	+ + + + + + + + + + + + + + + + + + +

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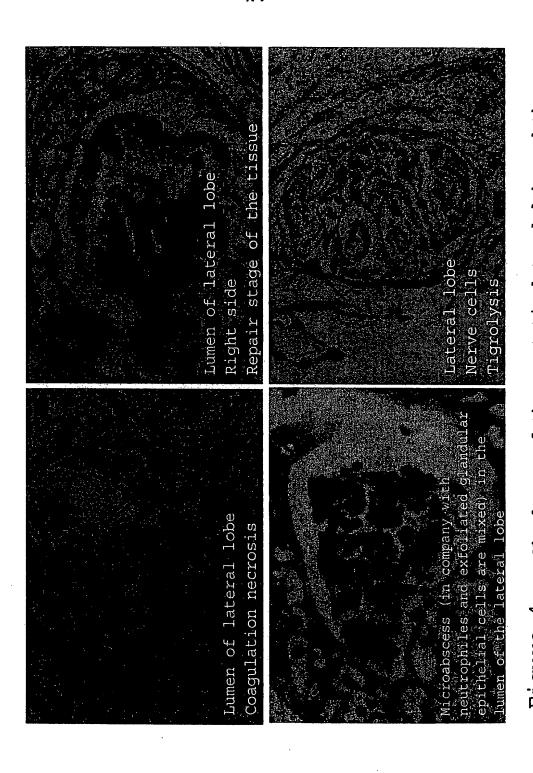


The longitudinally section of the prostate lateral lobe and the tissue around the urethra sampled 8 days after Figure 3

hydrochloric acid injection

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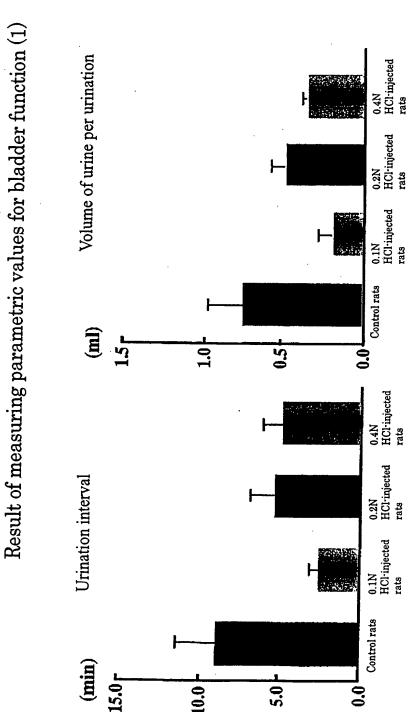
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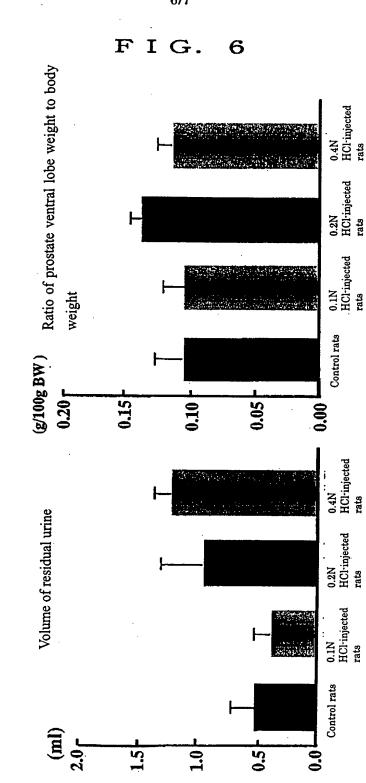
of the prostatic lateral lobe and the nerve 8 days after hydrochloric acid injection The lumen a tissue sampled cells of

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IG. 5



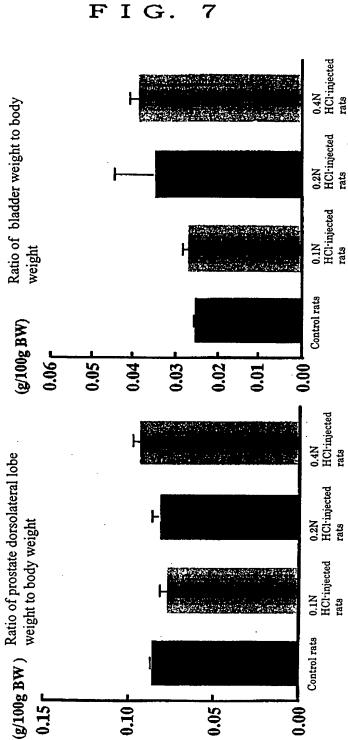
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Result of measuring parametric values for bladder function (2), and ratio of prostate ventral lobe

weight to body weight

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Ratio of prostate dorsolateral lobe weight to body weight, and ratio of bladder weight to body weight